

Applicant: Schleth, et al.
Application Serial No.: 10/622,041
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IN THE CLAIMS:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A sealing ring comprising:
an annular principal body responsible for dimensional stability and which on at least one axial side possesses a concentrically arranged annular groove having two radially opposite groove flanks, in which a sealing body, manufactured of rubber-elastic material, is held, which has a sealing bead projecting axially past the principal body, wherein within the annular groove an annular inner free space is provided radially within the sealing bead to receive the deformed material, and an annular outer free space is provided radially outside the sealing bead, the inner free space having a larger cross section at any point annularly than the outer free space, and wherein the capacity of the annular groove is at least equal to the volume of the sealing body so that the annular groove is in a position of also accepting the material, which defines the sealing bead, of the sealing body when the sealing bead is acted upon and deformed.

2. (Original) The sealing ring as set forth in claim 1, wherein the flanks of the annular groove run together in the direction of the groove's depth.

3. (Original) The sealing ring as set forth in claim 1, wherein the annular groove has

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a greater width at the groove opening than at the groove floor.

4. (Cancelled)

5. (Cancelled)

6. (Previously Presented) The sealing ring as set forth in claim 1, wherein each annular free space is delimited radially on the one hand by the sealing bead and on the other hand by the associated groove flank.

7. (Cancelled)

8. (Previously Presented) The sealing ring as set forth in claim 1, wherein the inner free space is deeper than the outer free space.

9. (Previously Presented) The sealing ring as set forth in claim 1, wherein the inner free space, at least at the groove opening, is wider than the outer free space.

10. (Original) The sealing ring as set forth in claim 1, wherein the capacity of the annular groove is equal to or slightly larger than the volume of the sealing body.

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11. (Original) The sealing ring as set forth in claim 1, wherein the sealing body has a foot section resting against the groove floor and bearing against the two groove flanks, from which foot section the sealing bead projects, which has a smaller width than the width of the annular groove.

12. (Original) The sealing ring as set forth in claim 1, wherein both the principal body and also the at least one sealing body is manufactured of plastic.

13. (Original) The sealing ring as set forth in claim 12, wherein the at least one sealing body is molded on the principal body by injection molding.

14. (Original) The sealing ring as set forth in claim 1, wherein the principal body consists of a thermoplastic plastic material.

15. (Original) The sealing ring as set forth in claim 1, wherein the at least one sealing body consists of an elastomeric plastic material.

16. (Original) The sealing ring as set forth in claim 1, wherein at its inner periphery a plurality of retaining projections is provided distributed about its periphery, such retaining projections being made integrally with at least sealing body and extending radially inward in relation to the principal body.

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17. (Original) The sealing ring as set forth in claim 1, wherein on both axial sides of the principal body a sealing body is provided arranged in a correspondingly shaped annular groove.

18. (Original) The sealing ring as set forth in claim 17, wherein the two sealing bodies are made separately from one another.

19. (Original) The sealing ring as set forth in claim 17, wherein the two sealing bodies are connected together by material bridges integrally, such bridges extending through the principal body axially at peripherally distributed points.

20. (New) A sealing ring comprising:
an annular principal body responsible for dimensional stability having two axial sides, and which on at least one of the two axial sides is a concentrically arranged annular groove having two radially opposite groove flanks, in which a first rubber-elastic sealing body is held, the first sealing body having a sealing bead projecting axially past the principal body, wherein within the annular groove an annular inner free space is provided radially within the sealing bead to receive the deformed material, and an annular outer free space is provided radially outside the sealing bead, the inner free space having a larger cross section than the outer free space, and wherein the capacity of the annular groove is at least equal to the

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volume of the first sealing body so that the annular groove is in a position of also accepting the material, which defines the sealing bead, of the first sealing body when the sealing bead is acted upon and deformed, and a second sealing body is provided on the other axial side of the principal body, the second sealing body is arranged in an annularly shaped groove, and wherein the first and second sealing bodies are connected together by material bridges integrally, such bridges extending through the principal body axially at peripherally distributed points.